

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Estimate for Improvements to roads and drains at Raghavendra colony and surrounding areas in ward no.11 in Kuvempunagar.

Estimation Cost.Rs 9900000.00

SI No	Description of work		Mesurement				Qty	Rate	Amount
		Unit	No.	L	B	D			
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 & 136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	Drain Desilt								
	Sommanna layout								
	5th Main Road	Cum	1	140.00	0.60	0.60	50.40		
	4th Main Road	Cum	2	145.00	0.60	0.60	104.40		
	3rd Main Road	Cum	2	145.00	0.60	0.60	104.40		
	2nd Main Road	Cum	2	150.00	0.60	0.60	108.00		
	7th Cross Road	Cum	2	130.00	0.60	0.60	93.60		
	For Flagging Course								
	Sommanna layout								
	5th Main Road	Cum	1	140.00	0.30	0.60	25.20		
	4th Main Road	Cum	2	145.00	0.30	0.60	52.20		
	3rd Main Road	Cum	2	145.00	0.30	0.60	52.20		
	2nd Main Road	Cum	2	150.00	0.30	0.60	54.00		
	7th Cross Road	Cum	2	130.00	0.30	0.60	46.80		
	Culverts		4	6.00	2.00	1.20	57.60		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						748.80	207.60	155451.00
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Drain (Sides & Bottom)	Width=Perimeter of Drain in U Shape							
	Sommanna layout								
	5th Main Road	Sqm	1	140.00	1.80		252.00		
	4th Main Road	Sqm	2	145.00	1.80		522.00		
	3rd Main Road	Sqm	2	145.00	1.80		522.00		
	2nd Main Road	Sqm	2	150.00	1.80		540.00		
	7th Cross Road	Sqm	2	130.00	1.80		468.00		
					Sub Total		2304.00		
	Consider 50% Missing or Damaged Slab						1154.30		
	Basic rate							105.00	
	Area weightage 6%							6.3	
	Total						1149.70	111.30	127961.00
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.(P.No.27,I.No.5.31.1)								
	Consider 30% Missing or Damaged Slab						1154.30		
	Basic rate							700.00	
	Area weightage 6%							42.00	
	Total						1154.30	742.00	856494.00

SI No	Description of work	Mesurement				Qty	Rate	Amount
		Unit	No.	L	B			
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2							
	For Flagging Course							
	Sommanna layout							
	5th Main Road	Cum	1	140.00	0.30	0.15	6.30	
	4th Main Road	Cum	2	145.00	0.30	0.15	13.05	
	3rd Main Road	Cum	2	145.00	0.30	0.15	13.05	
	2nd Main Road	Cum	2	150.00	0.30	0.15	13.50	
	7th Cross Road	Cum	2	130.00	0.30	0.15	11.70	
	Basic rate						5102.00	
	Area weightage 6%						306.12	
Total						57.60	5408.12	311508.00
5	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. blocks of size 400x200x200mm KBS No.5.4 (P.No-27,I No-5.26.1)							
	For Flagging Course							
	5th Main Road	Sqm	2	140.00		0.80	224.00	
	4th Main Road	Sqm	4	145.00		0.80	464.00	
	3rd Main Road	Sqm	4	145.00		0.80	464.00	
	2nd Main Road	Sqm	4	150.00		0.60	360.00	
	7th Cross Road	Sqm	4	130.00		0.80	416.00	
	Basic rate						962.00	
	Area weightage 6%						57.72	
	Total						1928.00	1019.72
6	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)							
	For Flagging Course							
	Sommanna layout							
	5th Main Road	Cum	2	140.00	0.20	0.10	5.60	
	4th Main Road	Cum	4	145.00	0.20	0.10	11.60	
	3rd Main Road	Cum	4	145.00	0.20	0.10	11.60	
	2nd Main Road	Cum	4	150.00	0.20	0.10	12.00	
	7th Cross Road	Cum	4	130.00	0.20	0.10	10.40	
	Vent Concrete							
	Sommanna layout							
	5th Main Road	Cum	1	60.00	0.45	0.10	2.70	
	4th Main Road	Cum	2	55.00	0.45	0.10	4.95	
	3rd Main Road	Cum	2	60.00	0.45	0.10	5.40	
	2nd Main Road	Cum	2	54.00	0.45	0.10	4.86	
	7th Cross Road	Cum	2	55.00	0.45	0.10	4.95	
	Culverts							
	Coping	Cum	4	6.00	1.50	0.10	3.60	

Sl No	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No.	L	B	D			
	Ramp	Cum	2x4	6.00	1.00	0.15	7.20		
	Basic rate							5422.00	
	Area weightage 6%							325.32	
	Total						84.86	5747.32	487718.00
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KPS 4.1.4.2								
	Culverts	Cum	4	6.00	1.80	0.15	6.48		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
	Total						6.48	5505.64	35677.00
8	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs. With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machine mixed, well compacted for wall and Bottom including centering shuttering, cost of materials, HOM of Machinery, Curing Etc., Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm (Item No 37.59.2 page no 271)								
	Culverts								
	Bottom Raft								
		Cum	4	6.00	1.50	0.20	7.20		
	Walls								
		Cum	8	6.00	0.23	0.90	9.94		
	Deck Slab								
			4	6.00	1.50	0.25	9.00		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						26.14	7070.20	184787.00
9	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200 Specification No. Pg No.229 Item No.28.8.2								
		Cum					26.14		
		kg	Steel assumed 90Kg/Cum of Concrete				2352.24		
		tonne					2.35		
	Basic rate							68233	
	Area weightage 6%							4093.98	
	Total						2.35	72326.98	170130.00
10	Providing and Fixing pre cast covering Slab made out of CC M20 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift, transportation etc ,copmplete. (Data Rate)								
	Drain cover slab								

SI No	Description of work	Mesurement				Qty	Rate	Amount
		Unit	No.	L	B			
	Sommanna layout							
	5th Main Road	Sqm	1	140.00	0.90	126.00		
	4th Main Road	Sqm	2	145.00	0.90	261.00		
	3rd Main Road	Sqm	2	145.00	0.90	261.00		
	2nd Main Road	Sqm	2	150.00	0.90	270.00		
	7th Cross Road	Sqm	2	130.00	0.90	234.00		
	Missing Slab	Sqm	1	58.00	0.90	52.20		
	Data rate						2337.00	
	Total					1204.20	2337.00	2814215.00

11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC F2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&I WTD SR 2018-19)							
	Sommanna layout							
	5th Main Road	Nos	1	140.00		/0.45	311	
	4th Main Road	Nos	2	145.00		/0.45	644	
	3rd Main Road	Nos	2	145.00		/0.45	644	
	2nd Main Road	Nos	2	150.00		/0.45	667	
	7th Cross Road	Nos	2	130.00		/0.45	578	
	Basic rate						408.00	
	Area weightage 6%						24.48	
	Total						2844	432.48
								1230165.00

12	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Iitem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)							
	Sommanna layout							
	5th Main Road	Sqm	1	140.00		0.45	63.00	
	4th Main Road	Sqm	2	145.00		0.45	130.50	
	3rd Main Road	Sqm	2	145.00		0.45	130.50	
	2nd Main Road	Sqm	2	150.00		0.45	135.00	
	7th Cross Road	Sqm	2	130.00		0.45	117.00	
	Basic rate						80.00	
	Area weightage 6%						4.80	
	Total						576.00	84.80
								48845.00

Grand Total								8388971.00
KRIDL Charges 3+1=4%								335559.00
GST Charges (12% of estimated cost)								1006677.00
DPR & PMC Report @ 2%								167779.00
Miscellenious and rounding								1014.00
Total Amount								9900000.00
RUPEES NINETY NINE LAKHS ONLY								

CERTIFICATE:

- 1) The work spot has been inspected and found to be necessary
- 2) The work spot comes under B.B.M.P (BTP)
- 3) The provisions made in the estimate are necessary and minimum
- 4) The estimate is based on C.S.R of 2018-2019, Issue rates and Data Rates.

Technical Sanction
Accorded For **Rs 99.00 lacs only**
Head of A/C **P 3727**
CER NO **149** Dt: **28-10-2019**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapuram Sub Division

Executive Engineer
Byatarayanapura Division